MELAMINE IN MILK PRODUCTS FOR HPLC ANALYSIS USING: 60mg 3mL HyperSep Retain-CX Extraction column (Part Number: 60107-303)

1. **PREPARE SAMPLE**
   Weigh 5g of milk powder (or measure 10mL of milk) into a 250mL flask.
   Add 50mL of 1% Trichloroacetic acid (TCA).
   Mix / vortex.

   Add 2mL of 2% lead acetate / water solution into the mixture then sonicate for 20 minutes.
   Transfer part of the final mixture into a 10mL centrifuge tube. Centrifuge for 10 minutes at 8,000 rpm.

2. **CONDITION RETAIN-CX EXTRACTION COLUMN**
   3mL of methanol
   3mL of DI water

3. **APPLY SAMPLE**
   Load 6mL of the sample extract onto the Retain-CX SPE product at 1-2mL/minute.

4. **WASH COLUMN**
   3mL of DI water
   3mL of methanol
   Dry column (5 minutes at > 10 inches Hg).

5. **ELUTE MELAMINE**
   5mL of 5% ammonia / methanol
   Collect eluate at 1 to 2mL/min.

6. **DRY ELUATE**
   Evaporate to dryness at < 50ºC using nitrogen.
   Reconstitute sample using 1mL of mobile phase